



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

1315 W. 4th Avenue • Kennewick, Washington 99336-6018 • (509) 735-7581

April 19, 2004

Mr. Don L. Flyckt  
Liquid Waste Processing Facilities  
Fluor Hanford  
P.O. Box 1000, MSIN: S6-71  
Richland, Washington 99352

**RECEIVED**  
APR 20 2004  
**EDMC**

Dear Mr. Flyckt:

**Ecology Approval of the 2706-T/TA Sumps Wastewater Characterization Evaluation under State Waste Discharge Permit ST4500**

Re: FH-0400942, Letter, from D.L. Flyckt, FH, to K. Conaway, Ecology dated April 7, 2004


The Washington State Department of Ecology (Ecology) has reviewed the 2706-T/TA Sumps Wastewater Characterization Evaluation for treatment in the Effluent Treatment Facility (ETF) and the discharge to the State-Approved Land Disposal Site (SALDS). The expectation is that T-Plant will ship about 800 gallons of the 2706-T/TA sump wastewater to the ETF for treatment. The new influent is wastewater generated from 55 gallons of decontamination solution from the Puget Sound Naval Shipyard which leaked from an 85-gallon container into the 2706-T/TA sumps at the 200 West Area T-Plant. The decontamination solution was a mixture of phosphoric acid and chromic acid. The spent decontamination solution also included copper, lead, nickel, and zinc from the waste tanks. Prior to the spill, the sumps contained about 745 gallons of diluted wastewater from the sumps. The information provided meets the requirement of Permit Condition S9, Influent Criteria. Ecology has determined that the proposed new influent, 2706-T/TA sumps wastewater and the higher concentration constituents, phosphate, and zinc (described in the characterization and engineering evaluation along with the influent description) can be accepted into the ETF for treatment and discharge. In addition, Ecology agrees that all known, available, and reasonable methods of treatment (AKART) were evaluated and the ETF is considered as the best available technology (BAT)/AKART for treatment of the field testing waste. **Ecology grants approval and the Liquid Processing and Capsule Storage (LPCS) can begin treating the subject wastewater.**

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ST4500 Permit Condition S9, (3.) requires that new influent streams be reported to Ecology each calendar quarter, at the same time as the Discharge Monitoring Report (DMR) for that calendar quarter is submitted.

If you have any questions, please contact me at (509) 736-3045.

Sincerely,



Kathy Conaway  
LPCS Permit Manager  
Nuclear Waste Program

KAC:nc

cc: Nick Ceto, EPA  
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